<u>IN THE CLAIMS</u>

Please cancel Claims 20-27 and 31-35 without prejudice.

1. (Original) A method of capturing an image using an ultrasound system, comprising:

    surveying the image to collect motion data;

    analyzing the motion data to identify a flow in the image; and

    scanning a limited region of the image containing the flow with a flow imaging technique.

2. (Original) The method of claim 1, wherein surveying step comprises the step of collecting a sample of color flow data.

3. (Original) The method of claim 2, wherein surveying step comprises the step of collecting contour data.

4. (Original) The method of claim 1, wherein the analyzing step generates a motion map that identifies flow and non-flow regions.

5. (Original) The method of claim 1, wherein the flow imaging technique includes a technique selected from the group consisting of: color flow, time domain correlation, speckle tracking, strain imaging, pulse wave Doppler, and continuous wave Doppler.

6. (Original) The method of claim 1, wherein the flow is associated with a valve in a heart.

7. (Original) The method of claim 1, wherein the flow indicates a blood vessel.

8. (Original) The method of claim 1, wherein the scanning step uses multi-line beamforming.

9. (Original) The method of claim 1, wherein the flow is periodically tracked and the limited region of the image containing the flow is automatically adjusted.

10. (Original) The method of claim 1, wherein the limited region for acquisition is a region selected from the group consisting of a 3D pie slice, a cube, an arbitrary shape, and a collection of shapes.

11. (Original) The method of claim 1, wherein the scanning step includes adjusting a set of acquisition parameters selected from the group consisting of b-mode line densities, colorflow line densities, pulse repetition frequency, and ensemble length.

12. (Original) An ultrasound system, comprising:

a survey system for collecting motion data from a target image;

a segmentation system for mapping a region of flow within the image based on the motion data; and

a flow acquisition system that automatically limits the collection of flow image data within the image to the region of flow.

13. (Original) The ultrasound system of claim 12, wherein the motion data comprises color flow data.

14. (Original) The ultrasound system of claim 13, wherein the motion data comprises contour data.

15. (Original) The ultrasound system of claim 12, wherein the flow acquisition system collects data using an imaging technique selected from the group consisting of: color flow, time domain correlation, speckle tracking, strain imaging, pulse wave Doppler, and continuous wave Doppler.

16. (Original) The ultrasound system of claim 12, wherein the flow acquisition system uses multi-line beamforming.

17. (Original) The ultrasound system of claim 12, wherein the region of flow is periodically tracked and automatically adjusted.

18. (Original)The ultrasound system of claim 12, wherein region of flow is a region selected from the group consisting of a 3D pie slice, a cube, an arbitrary shape, and a collection of shapes.

19. (Original) The ultrasound system of claim 12, wherein the flow acquisition system includes a set of acquisition parameters selected from the group consisting of: b-mode line densities, colorflow line densities, pulse repetition frequency, and ensemble length.

Claims 20-27. (Cancelled)

28. (Original) A program product stored on a recordable medium for optimizing ultrasound data, comprising:

means for receiving survey data representative of motion in a
volume of ultrasound data;
means for mapping the survey data into a motion map that
indicates flow and non-flow regions; and
means for limiting the collection of flow data to the flow
regions.

29.   (Original) The program product of claim 28, including
further means for collecting grayscale data interspersed with
flow data.

30.   (Original) The program product of claim 28, wherein the
collection of flow data is achieved with a technique selected
from the group consisting of: color flow, time domain
correlation, speckle tracking, strain imaging, pulse wave
Doppler, and continuous wave Doppler.

Claims 31-35. (Cancelled)